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**FROM:** Peter Yim  
Reg. No. 44,417**DATE:** December 18, 2006

Number of pages with cover page:	6	
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**Comments:****PLEASE PROCESS THE ATTACHED.**

Re: U.S. Patent Application Serial No. 10/791,046  
For: SELECTING A PROFILE MODEL FOR USE IN OPTICAL  
METROLOGY USING A MACHINE LEARNING SYSTEM  
By: Emmanuel DREGE et al.  
Our Reference: 50998-20059.00

Attached is the following:

1. Transmittal (1 page)
2. Amendment Under 37 CFR 1.115 (4 pages)

sf-2227729

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PTO/SB/21 (09-04)

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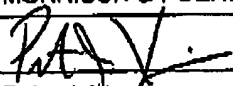
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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>		Application Number	10/791,046
		Filing Date	March 1, 2004
		First Named Inventor	Emmanuel DREGE
		Art Unit	2129
		Examiner Name	G. Davis
		Attorney Docket Number	509982005900
Total Number of Pages in This Submission	5		

**ENCLOSURES (Check all that apply)**

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment/Reply (4 pages) <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Reply to Missing Parts/Incomplete Application <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ <input type="checkbox"/> Landscape Table on CD	<input type="checkbox"/> After Allowance Communication to TC <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Facsimile Cover Sheet (not counted as part of this submission)
Remarks		

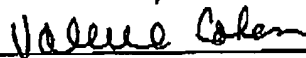
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Firm Name	MORRISON & FOERSTER LLP (Customer No. 20872)		
Signature			
Printed name	Peter J. Vilm		
Date	December 18, 2006	Reg. No.	44,417

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**REPLY UNDER 37 CFR 1.116**  
**EXPEDITED PROCEDURE**  
**TECHNOLOGY CENTER 2100**  
Docket No.: 509982005900  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Emmanuel DREGE et al.

Application No.: 10/791,046

Confirmation No.: 1279

Filed: March 1, 2004

Art Unit: 2129

For: SELECTING A PROFILE MODEL FOR USE  
IN OPTICAL METROLOGY USING A  
MACHINE LEARNING SYSTEM

Examiner: G. Davis

**AMENDMENT UNDER 37 C.F.R. 1.116**

MS AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This is in response to the final Office Action dated October 18, 2006 (Paper No. 20061015), for which a response is due on January 18, 2007. Accordingly, this response is timely filed. Additionally, this response is filed within two months of the mailing date of the Final Office Action and therefore qualifies for expedited review. Reconsideration and allowance of the pending claims, as amended, in light of the remarks presented herein are respectfully requested.

sf-2215138